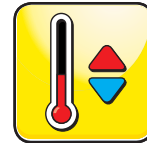


tekmar® Submittal

One Stage Setpoint Control 150



Setpoint

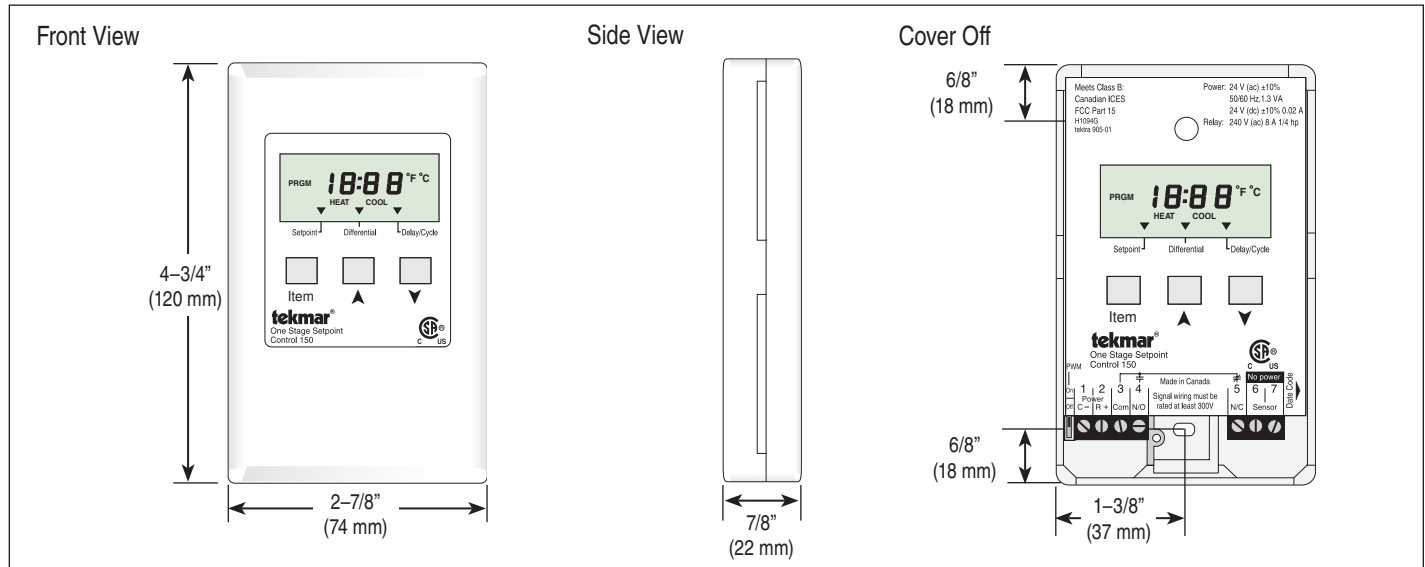
C 150

01/11

Replaces: New

Job _____ Designer _____ Contact _____

The One Stage Setpoint Control 150 is designed to operate a single component of a heating or cooling system in order to maintain a set temperature. It can be used in applications ranging from heating a swimming pool to maintaining a constant slab temperature in a commercial car wash bay. This control regulates a constant setpoint water temperature for heating or cooling. The 150 is designed to operate a single relay (rated at 240 V, 8 A) to control a single device such as a boiler, pump, or valve.



Specifications

One Stage Setpoint Control 150	
Literature	D150, A150, D001, D070
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	1.0 lb. (450 g)
Dimensions	4-3/4" H x 2-7/8" W x 7/8" D (120 x 74 x 22 mm)
Enclosure	White PVC plastic, NEMA type 1
Approvals	CSA C US, meets class B: ICES & FCC Part 15
Ambient conditions	Indoor use only, -20 to 120°F (-30 to 50°C), RH ≤90% Non-condensing
Power supply	24 V (ac) ±10%, 50/60 Hz, 1.3 VA, 24 V (dc) ±10%, 0.02 A
Relay	240 V (ac) 8 A max, 1/4 hp
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
—Included	Universal Sensor 071
—Optional	tekmar type #: 070, 071, 072, 073, 076, 077, 078, 079, 082, 083, 084
Programmed settings	Ten year memory backup
Control accuracy	±0.5°F (±0.3°C) with up to 500 ft. (150 m) of 18 AWG wire to sensors
Temperature display	-85 to 302°F (-65 to 150°C)
Setpoint operation	-40 to 239°F (-40 to 115°C)
Differential (Bang/Bang)	1 to 40°F (1 to 22°C)
Differential (PWM)	3 to 40°F (2 to 22°C)
Time delay (Bang/Bang)	0 to 19 min. 50 sec.
Cycle length (PWM)	30 sec. to 19 min. 50 sec.
Operating mode	Heating / Cooling
Temperature display	Fahrenheit / Celsius
Warranty	Limited 3 Year (See D150 for full warranty)

Features

- Heat or Cool Setpoint Control
- Pulse Width Modulation Control
- Digital display
- Normally open AND normally closed relay

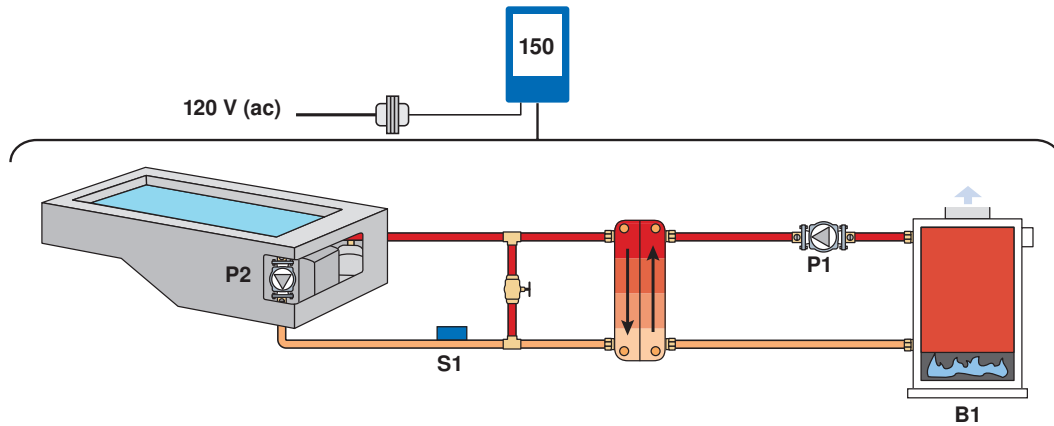
SPECIAL REQUIREMENTS

N / A

Sample Application Drawing

Below is a sample application drawing for this product. This application may include other tekmar products that are required for installation. More sample applications can be found at www.tekmarcontrols.com.

Sample Mechanical diagram



Sample Electrical diagram

Legend:

S1 = Pool Sensor 071
P1 = Boiler Pump
(Controlled by boiler circuit)
P2 = Pool circulation pump*
B1 = Boiler 1

* Pump controlled by others

